

NON-PATENT LITERATURE

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File 95: TEME-Technology & Management 1989-2006/Jun W2
(c) 2006 FIZ TECHNIK
File 23: CSA Technology Research Database 1963-2006/Jun
(c) 2006 CSA.
File 99: Wilson Appl. Sci & Tech Abs 1983-2006/May
(c) 2006 The HW Wilson Co.
Set Items Description
S1 6454449 HOUSING OR CASE OR CASING OR ENCLOSURE OR CHAMBER OR CHAMB-
RE OR CONTAINER OR HOLDER
S2 541672 BLOWER OR COMPRESS?R OR FAN OR PUMP
S3 179226 BAG OR BAGLIKE OR POUCH OR POCKET
S4 3 SUBHOUSING
S5 1331473 FLEXIBLE OR PLIANT OR ELASTIC OR BENDABLE
S6 30160 (SOUND? ? OR NOISE? ?) (2N) (ATTENUAT? OR DAMPEN? OR DAMP???
OR ABSORB? OR MUFFL?)
S7 489 S1 AND S2 AND (S3 OR S4 OR S5 (2N) S1)
S8 0 S6 AND S7
S9 377 S1(S) S2(S) (S3:S4 OR S5 (2N) S1)
S10 1641402 SOUND? ? OR NOISE? ?
S11 5 S7 AND S10
S12 5 RD (unique items)
S13 1 S1 AND S2 AND S3:S5 AND S6
S14 33 S7/1999
S15 29 S7/2000
S16 26 S7/2001
S17 41 S7/2002
S18 25 S7/2003
S19 39 S7/2004
S20 28 S7/2005
S21 6 S7/2006
S22 258 S7 NOT (S11:S21)
S23 188 RD (unique items)

S24 1665143 S1/TI OR S2/TI,DE
S25 70 S23 AND S24
S26 70 Sort S25/ALL/PY,A
S27 542 S2(S)S6
S28 100 S1 AND S27
S29 882 S3:S5(S)S6
S30 129 S1 AND S29
S31 129 S30 NOT S25
S32 89 RD (unique items)
S33 2 S32/1999
S34 9 S32/2000
S35 6 S32/2001
S36 5 S32/2002
S37 2 S32/2003
S38 3 S32/2004
S39 6 S32/2005
S40 1 S32/2006
S41 55 S32 NOT S33:S40
S42 55 Sort S41/ALL/PY,A

12/3,K/2 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01574022 JICST ACCESSION NUMBER: 92A0415147 FILE SEGMENT: JICST-E

On a pneumatic conveying system of waste.

TANAKA TOSHIO (1)

(1) Chibaken Kogyocho

Haikan Gijutsu(Piping Engineering), 1992, VOL.34,NO.7, PAGE.59-62, FIG.4

JOURNAL NUMBER: G0858AAX ISSN NO: 0385-9894 CODEN: HAGIB

UNIVERSAL DECIMAL CLASSIFICATION: 621.6 628.47

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: a inlet is stored in a tank, and then transported through a pipeline by a blower . The capacity of the system is 60t/day. The introduction of the system makes it possible to dump waste freely at any time. So that neither exhaust gas nor noise is emitted from vehicles and that waste collection is not influenced by weather and traffic...

...DESCRIPTORS: blower ; ...

... bag filter

...BROADER DESCRIPTORS: container ;

12/3,K/5 (Item 2 from file: 23)

DIALOG(R)File 23:CSA Technology Research Database

(c) 2006 CSA. All rts. reserv.

0003619926 IP ACCESSION NO: 900345-0270

Dust Extraction After a Ladle Furnace in a Steelworks

Scheuch, A

Machinery and Steel, Austria, v 31, n 5-6, p 26-29, 1989

PUBLICATION DATE: 1989

PUBLISHER: Fachverband Masch. Stahlbauindustrie Oesterreich, Wiedner

Hauptstrasse 63, Vienna, A-1045

COUNTRY OF PUBLICATION: Austria

PUBLISHER URL: <http://www.fms.at>

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English and German

ISSN: 0255-3066

FILE SEGMENT: Metadex

ABSTRACT:

... then filter bags. Bags are automatically cleaned with short compressed air pulses. Consecutive cleaning of **bag** rows ensures only one row at a time is inoperative and enables economical filter dimensioning. A baffle type **silencer** reduces **noise** 25 dB and soundproof **fan** **casing** another 7 dB. A table lists technical data.--J.V.R.

26/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

01239472 INSPEC Abstract Number: C71006721

Title: Capacity regulator for intermittent-action displacement pump

Inventor(s): Britvin, L.N.

Patent Number: US 3524387 Issue Date: 700818

Application Date: 680607

Priority Appl. Number: US 735302

Country of Publication: USA

Language: English

Subfile: B C

Abstract: A capacity regulator for intermittent-action displacement pumps comprises a **housing** forming a regulator **chamber** in which an elastic diaphragm is located to provide a variable-volume **chamber** between the diaphragm and the **housing**. A second elastic diaphragm is likewise located in the **housing** so as to form an auxiliary **chamber** with the other elastic diaphragm which can be filled with a liquid hermetically sealed by the diaphragms. A pressure-heat **chamber** is formed in the **housing** by the second elastic diaphragm at the side opposite the variable-volume **chamber** and fixed thrust elements are located in the regulator **chamber** and limit the displacement of the diaphragms so that one of the diaphragms comes to...

... bear on the second of the elements in the opposite direction of movement. The auxiliary **chamber** is hydraulically connected with a control mechanism in turn communicating with a source of pressure.

...Identifiers: intermittent action displacement **pump** ; ...

...pressure lead **chamber** ; ...

...variable volume **chamber** ;

26/3,K/6 (Item 6 from file: 6)

DIALOG(R)File 6:NTIS

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0970283 NTIS Accession Number: PB82-214800/XAB

Personal Sampler Pump for Charcoal Tubes

(Final rept)

Sipin (Anatole J.) Co., New York.

Corp. Source Codes: 075742000

Sponsor: National Inst. for Occupational Safety and Health, Cincinnati, OH.

Sep 72 30p

Languages: English

Journal Announcement: GRAI8220

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

This is a final report in a program aimed at developing a personal sampler **pump** for charcoal tubes. The design of the **pump** is such that a reciprocating diaphragm **pump** is driven through a crank by a miniature, battery-powered DC gear motor. The final prototype consists of a **case**, which houses the pumping mechanism, the controls, and the batteries, and a separate **holder** for the charcoal tube. The **case** is sufficiently small and light to be carried in a shirt **pocket**. The tube **holder** is clipped to the shirt collar and the charcoal tube is connected to the **pump** through a length of plastic tubing. A description of the personal sampler **pump** and discussion of the work accomplished and of the test results are presented.

26/3,K/9 (Item 9 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2006 NTIS, Intl Cpyrht All Rights Res. All rts. reserv.

0801528 NTIS Accession Number: AD-A078 439/7/XAB

Investigation of Fan Blade Shroud Mechanical Damping

(Final rept. 1 Sep 77-1 Mar 79)

Rimkus, D. A. ; Frye, H. M.

Pratt and Whitney Aircraft Group, West Palm Beach, FL. Government Products Div.

Corp. Source Codes: 065875001; 392887

Sponsor: Air Force Aero Propulsion Lab., Wright-Patterson AFB, OH

Report No.: PWA-FR-11065; AFAPL-TR-79-2054

Jun 79 79p

Languages: English

Journal Announcement: GRAI8008

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A05/MF A01

... of dry friction **damping** at the shroud interfaces on the structural dynamic characteristics of shrouded **fan** blades typical of current high performance jet engines. An analytical definition of the loads generated... ... faces for a general stick-slip condition was developed. The analytical load description includes the **elastic** **case** of a stuck or locked shroud as well as the **case** of a slipping shroud. These loads were used in a non-linear steady-state vibration analysis of the shrouded blade. Controlled vibration testing of the first-stage **fan** blade with a trailing edge shroud of a YF100 (prototype) turbofan engine was conducted. The...

26/3,K/18 (Item 18 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

02541829 E.I. Monthly No: EI8804037800

Title: CASE HISTORY OF A VIBRATION PROBLEM IN A MULTISTAGE CRYOGENIC PUMP.

Author: Chang, C. M.; Braun, F. W.

Corporate Source: Union Carbide Corp, Tonawanda, NY, USA
Source: Lubrication Engineering v 43 n 12 Dec 1987 p 916-922
Publication Year: 1987
CODEN: LUENAG ISSN: 0024-7154
Language: ENGLISH

...Abstract: designed to operate with long flexible shafts and many rotating stages in series, inside of **flexible casing** bundles and support structures. The vibrational characteristics of these pumps are complex. Modern experimental and...

...to the successful resolution of the severe vibration problem of a vertical multistage liquid nitrogen pump. (Author abstract) 4 refs.

26/3,K/37 (Item 37 from file: 95)
DIALOG(R) File 95:TEME-Technology & Management
(c) 2006 FIZ TECHNIK. All rts. reserv.
00686493 M93048528693
Scroll type compressor with injection mechanism
(Spiralverdichter mit Einspritzanlage)
Yoshii, Y
Sanden Corp., Isesaki-shi Gunma, J
1992

Document type: European patent application Language: English
Record type: Abstract

ABSTRACT:

In a scroll type **compressor** including a **housing** , a fixed scroll having a first end plate from which a first spiral element extends...
...orbiting scroll during its orbital motion whereby the volume of the fluid pockets change, said **housing** including an end portion which faces said first circular end plate of said fixed scroll, said scroll type **compressor** forming a part of a refrigeration circuit which includes a condenser, communicating means for communicating a downstream side of said condenser to at least one sealed-off fluid **pocket** in which pressure is lower than pressure in said downstream side of said condenser, the...
...comprising: said communicating means including a communication path formed in said end portion of said **housing** and said first end plate of said fixed scroll, an inner surface of said end portion of said **housing** being in fit contact with one end surface of said first end plate of...

26/3,K/38 (Item 38 from file: 95)
DIALOG(R) File 95:TEME-Technology & Management
(c) 2006 FIZ TECHNIK. All rts. reserv.
00675437 M93038187674
Scroll type compressor with variable displacement mechanism
(Spiralverdichter mit Einrichtung zur Veraenderung der Verdraengung)
Matsumoto, T; Tsukagoshi, Y
Sanden Corp., Isesaki-shi Gunma, J
1992

Document type: European patent application Language: English
Record type: Abstract

ABSTRACT:

In a scroll type **compressor** including a **housing** having an inlet port and an outlet port, a fixed scroll disposed within said **housing** and having a first circular end plate from which a first spiral element extends into an interior of said **housing** , an orbiting scroll having a second

circular end plate from which a first spiral element extends into an interior of said **housing**, an orbiting scroll having a second circular end plate from which a second spiral element...

...angular and radial offset forming a plurality of line contacts and defining a central fluid pocket and at least one pair of outer fluid pockets within the interior of said **housing**, a driving mechanism operatively connected to said orbiting scroll to effect orbital motion of said...

...orbiting scroll during orbital motion, said first circular end plate dividing the interior of said **housing** into a front **chamber** and a rear **chamber**, said front **chamber** communicating with said inlet port, said rear **chamber** communicating with the central fluid pocket, variable displacement means for varying the displacement of said **compressor** controlling to open and close a communication path which communicates at least one of a pair of intermediately located fluid pockets to said front **chamber**, said variable displacement means including a cavity a part of which is defined within said...

...the improvement comprising: said variable displacement means further including a conduit permanently linking said discharge **chamber** to said cavity so as to introduce the discharge pressure to one end of said...

26/3,K/44 (Item 44 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management
(c) 2006 FIZ TECHNIK. All rts. reserv.

00717764 M93098039665

Scroll compressor with dual pocket axial compliance
(Spiralverdichter mit Doppelkammer zum axialen Ausgleich)

Nieter, JJ; Marchese, AJ; DeBlois, RL; Barito, TR
Carrier Corp., Syracuse, USA

1993

Document type: European patent application Language: English

Record type: Abstract

ABSTRACT:

A scroll **compressor** for compressing a fluid, including a first scroll means having a base including a floor...

...that fluid compression is achieved in said compression pockets, characterized by: a dynamic back pressure **chamber** having a volume and disposed behind said base of one of said first and second scroll means, said dynamic back pressure **chamber** having a first volume; and means for venting fluid from a first selected one of said **compression pockets** at a selected location into said dynamic back pressure **chamber**, said means for venting having a first effective flow diameter with a ratio of said...

26/3,K/47 (Item 47 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02261816 JICST ACCESSION NUMBER: 94A0966143 FILE SEGMENT: JICST-E
Air Buffer Material "SOFTECH".

TOMINAGA TAKASHI (1); KAWATAKE HIDEYUKI (1); ITO MAKOTO (1)
(1) Nitto Denko Corp.

Nitto Giho(Nitto Technical Report), 1994, VOL.32,NO.2, PAGE.54-55, FIG.3

JOURNAL NUMBER: Z0901AAB ISSN NO: 0285-2462

UNIVERSAL DECIMAL CLASSIFICATION: 678.06:621.798

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication
...DESCRIPTORS: air bag (vehicle...
...air compressor;
...BROADER DESCRIPTORS: bag ; ...
... container ; ...
... compressor ;

26/3,K/51 (Item 51 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2006 FIZ TECHNIK. All rts. reserv.
00772101 M94028272610
Scroll compressor with discharge diffuser
(Spiralverdichter mit Auslassdiffusor)
Rafalovich, AP; Bass, M; Caillat, J-L
Copeland Corp., Sidney, USA
1994
Document type: European patent application Language: English
Record type: Abstract
ABSTRACT:
A scroll-type **compressor** comprising: a first scroll member having a first spiral wrap thereon; a second scroll member...
...orbiting movement will cause said first and second wraps to define at least one fluid **pocket** moving from a radially outer position at suction pressure to a radially inner position in a discharge pressure **chamber** at discharge pressure; and a discharge passage communicating with said discharge pressure **chamber**, said passage having a converging entrance portion with a cross-section which progressively decreases in...

26/3,K/52 (Item 52 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2006 INIST/CNRS. All rts. reserv.
11811908 PASCAL No.: 94-0695112
The direct contact problem in a trochoidal-type machine
SHUNG J B; PENNOCK G R
Louisiana tech. univ., dep. mechanical industrial eng., Ruston LA
71272-0046, USA
Journal: Mechanism and machine theory, 1994, 29 (5) 673-689
Language: English
English Descriptors: Pump ; Rotor; Cavity; Direct contact; Force; Pressure ; Friction; Computing method; Finite element method; Trochoidal machine; Pump chamber ; Pocket

26/3,K/59 (Item 59 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2006 Japan Science and Tech Corp(JST). All rts. reserv.
02773518 JICST ACCESSION NUMBER: 96A0736750 FILE SEGMENT: JICST-E
New-Concept Advance Track "SUPER GREAT-X".
KIUCHI TATSUO (1); SUSUKI YUTA (1); MIHIRA TAKEAKI (1)
(1) Mitsubishi Mot. Corp.
Mitsubishi Jidosha Teknikaru Rebyu(Mitsubishi Motors Technical Review),
1996, NO.8, PAGE.71-74, FIG.10, TBL.1

JOURNAL NUMBER: L0265AAE ISSN NO: 0915-2377
UNIVERSAL DECIMAL CLASSIFICATION: 629.332
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Introduction article
MEDIA TYPE: Printed Publication
...DESCRIPTORS: air **bag** (vehicle...
...fuel injection **pump** ;
...BROADER DESCRIPTORS: **bag** ; ...
... **container** ; ...
... **pump** classified by application...
... **pump** ;

26/3,K/67 (Item 67 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c) 2006 Japan Science and Tech Corp(JST). All rts. reserv.
04136704 JICST ACCESSION NUMBER: 98A0985180 FILE SEGMENT: JICST-E
Preventive method for vibration in carrying air conditioner.
MIYAZAKI KOICHI (1)
(1) Toshiba Corp.
Toshiba Gijutsu Kokaishu, 1998, VOL.16,NO.58, PAGE.45-47, FIG.3
JOURNAL NUMBER: L0795AAY ISSN NO: 0288-2701
UNIVERSAL DECIMAL CLASSIFICATION: 628.81/.84+697
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication
...DESCRIPTORS: **compressor** ; ...
...air **bag** (vehicle
...BROADER DESCRIPTORS: **bag** ; ...
... **container** ;

26/3,K/69 (Item 69 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c) 2006 Japan Science and Tech Corp(JST). All rts. reserv.
03652597 JICST ACCESSION NUMBER: 98A0728177 FILE SEGMENT: JICST-E
Air Compressor . Battery-Shaped Pressurized Air Source.
ARAI TASHIRO (1); NAGAI NAOTSUKA (1); TAKAHASHI MASASHI (2)
(1) Nihonkuatsushisutemu; (2) Nihontansangasu
Furuido Pawa Shisutemu(Journal of the Japan Hydraulics & Pneumatics Society
, 1998, VOL.29,NO.4, PAGE.380-385, FIG.8, TBL.3
JOURNAL NUMBER: S0170BAF ISSN NO: 1343-4608
UNIVERSAL DECIMAL CLASSIFICATION: 621.226+621.51 620.9.004.4
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication
...DESCRIPTORS: air **bag** (vehicle)
...BROADER DESCRIPTORS: **container** ; ...
... **bag**

42/7/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.
0000230958 INSPEC Abstract Number: 1932B01466

Title: The quiet power house

Author(s): Mitchell, G.S.
Journal: Electric Journal 29 p.109-112
Publication Date: March 1932 Country of Publication: USA
Language: English Document Type: Journal Paper (JP)
Abstract: The elimination of **noise** in and around power stations is a subject to which increasing attention is being paid. Although it depends largely upon the design of the plant employed, much can be done by arrangements to prevent transmission of vibration through foundations and the provision of **sound - absorbing** walls constructed of materials which neither vibrate themselves like diaphragms nor transmit vibration. In a new power-house at San Francisco, all building and machinery foundations are separated by a layer of mastic compound, and extensive use is made of sound-deadening material. The control-room is made as sound-proof as possible by double walls filled with diatomaceous earth and double windows, and a layer of felt of 0.75 in. is placed between the ceiling beams. Ebony asbestos replaces slate or marble on the switchboard panels, and thick linoleum covers the floor. **Noise** from outdoor transformers can be lessened by mounting on cork bases and using **flexible** instead of rigid connections. Where a roof can be put over them it can be lined with felt with good results. Such plant as motor-generators can be mounted on rubber blocks, and noisy machinery generally can be improved by **enclosure** in felt-lined cases. An improved form of **silencer** for large Diesel engines is referred to. Subfile: B

Copyright 2004, IEE

42/7/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.
0000486989 INSPEC Abstract Number: 1958B03334

Title: A way to get low sound levels in large power transformers - preassembled enclosures

Author(s): Schulz, M.W.; McNutt, W.J.
Journal: Transactions of the American Institute of Electrical Engineers, Part III (Power Apparatus and Systems) 76 p.1365-1370
Publication Date: 1957 Country of Publication: USA
Language: English Document Type: Journal Paper (JP)
Abstract: Reductions in **sound** level of 15-20 dB are obtained by a steel plate **enclosure** built around the main tank of a transformer of conventional design having separate radiators. All connections between the tank and **enclosure** and radiators are **flexible** to prevent **sound** transmission, and **sound absorbing** material is placed in the air space between tank and **enclosure**. Full details of construction are given.

Note: = Pwr Apparatus Syst., No. 34 (Feb., 1958). Subfile: B
Copyright 2004, IEE

42/7/8 (Item 8 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2006 NTIS, Intl Cpyrht All Rights Res. All rts. reserv.
0111711 NTIS Accession Number: AD-645 111/XAB
Effectiveness of Elastic -Walled Concentric Tubes in Attenuating Fluidborne Noise in an Expansion Chamber Acoustic Filter

Serial 09/868875

June 22, 2006

Kakaley, E.

Navy Marine Engineering Lab., Annapolis, Md.

Corp. Source Codes: 217150

Report No.: MEL-448/66

Dec 66 130p

Journal Announcement: USGRDR6705

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NTIS Prices: PC A07/MF A01

Contract No.: S-F113-11-09; 03963

The report describes an experimental evaluation of several internal design modifications intended to improve the fluidborne **noise** reduction provided by an expansion- **chamber** type acoustic filter over the frequency range of 40 to 1000 Hertz (Hz) modifications included: The installation of a number of combinations of **elastic-walled tubes** concentrically positioned in the expansion **chamber**. A set of many small diameter orifices drilled in two of the concentrically positioned tubes. A baffle installed at the inlet end of the expansion **chamber** between a single concentric tube and the expansion **chamber** wall. Results indicate no consistent trends or order relating **attenuation** and the number of concentric **elastic-walled tubes** in the expansion **chamber**, over the frequency range of interest. A significant improvement in **attenuation** over that obtained by the expansion **chamber** alone was noted, however, when the smaller of the two tubes having drilled orifices was installed. Installation of a baffle brought further improvement in **attenuation**. (Author)

42/7/11 (Item 11 from file: 23)

DIALOG(R)File 23:CSA Technology Research Database

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0000628796 IP ACCESSION NO: N70-20682

A new highly-effective sound-absorbing assembly and the construction of an anechoic chamber (Advanced sound absorbing materials for construction of anechoic chamber)

MEYER, E

PAGES: 31P; 31P

PUBLICATION DATE: 1969

DOCUMENT TYPE: Report

RECORD TYPE: Citation

LANGUAGE: English

REPORT NO: NLL-RISLEY-TRANS-1859-/9091.9F

NOTES: AVAIL- NATL. LENDING LIBRARY, BOSTON SPA, ENGL.- .2 NLL PHOTOCOPY

COUPONS; Available from AVAIL- NATL. LENDING LIBRARY, BOSTON SPA, ENGL.- .2 NLL PHOTOCOPY COUPONS; TRANSL. INTO ENGLISH FROM AKUSTISCHE Z. /GERMAN/, V. 5, 1940 P 352-364

FILE SEGMENT: Aerospace & High Technology

42/7/17 (Item 17 from file: 73)

DIALOG(R)File 73:EMBASE

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00800393 EMBASE No: 1977145867

Structure vibration with diesel engines

KORPERSCHALLAUSBREITUNG BEI DIESELMOTOREN

Fachbach H.A.; Thien G.E.

Forsch. Vereinig. Verbrenn. Kraftmaschinen, Graz Austria

MOTORTECHN.Z. 1976, 37/7-8 (269-274)

CODEN: MOTZA

DOCUMENT TYPE: Journal

LANGUAGE: GERMAN

The aims of the research work described in this paper consist of a fundamental knowledge concerning vibration transmission from combustion chamber to the noise radiating external crankcase surfaces with watercooled inline engines; furthermore, the influence of cast iron and cast aluminium as a material of crankcase, the origin of the noise of crankshaft pulleys, as well as the attenuation of vibration isolating elements for pipe systems. With watercooled inline engines, the main part of vibration energy is transmitted from combustion chamber via crankdrive components to the noise radiating external surface, the natural vibration modes of the force transmitting parts exerting the main influence on the vibration transfer. The prediction elaborated by theoretical considerations, that engines the casing of which consist of cast aluminium produce an essentially higher noise level compared to engines made of cast iron, could not be confirmed with running engines. The position of the axial bearing of crankshafts with inline engines as well as the mass of crankshaft pulleys have a certain influence on the noise radiated by crankshaft pulleys. The measures vibration isolation of the pulley as well as the noise attenuating enclosure, however, are much more effective. With exhaust pipe systems sufficient vibration attenuation can be achieved by means of corrugated pipes and so-called piston ring compensators, the arrangement being very advantageous. The vibration isolation of air intake and cooling water pipes can be carried out by means of flexible rubber tubes.

42/7/20 (Item 20 from file: 23)

DIALOG(R)File 23:CSA Technology Research Database

(c) 2006 CSA. All rts. reserv.

0001632826 IP ACCESSION NO: 200212-62-001521; A80-25674

Aerodynamic and body-generated sound in the case of the normal incidence of a turbulent free jet on an elastic plate (German thesis)

ORIGINAL TITLE: Luft- und Koerperschallerzeugung bei senkrechter Anstroemung einer elastischen Platte durch einen turbulenten Freistrah

BOEHNKE, W

ADDL. SOURCE INFO: Berlin, Technische Universitaet, Fachbereich fuer Umwelttechnik, Dr.-Ing. Dissertation, 1978. 120 p. In German. Research supported by the Deutsche Forschungsgemeinschaft

PUBLICATION DATE: 1978

CONFERENCE:

, Germany

DOCUMENT TYPE: THESIS

RECORD TYPE: Abstract

LANGUAGE: German

NOTES: 36 ref.

FILE SEGMENT: Mechanical & Transportation Engineering Abstracts; Aerospace & High Technology

ABSTRACT:

An attempt is made to find a simple model that makes it possible to estimate the noise generated during the normal interaction of a turbulent free jet with an elastic plate and to establish the parameters that affect

sound damping. Attention is given to mechanisms of aerodynamic **noise** generation, and results of aerodynamic and acoustic measurements are presented. A model is presented for the distribution of pressure fluctuations on the plate, which may be used to evaluate the body-generated **noise**.

42/7/26 (Item 26 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

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00953424 E.I. Monthly No: EI8010076992 E.I. Yearly No: EI80057941

Title: HOW TO ENGINEER FOR NOISE CONTROL.

Author: Dionne, Edward D.

Source: National Safety News v 121 n 4 Apr 1980 p 45-51

Publication Year: 1980

CODEN: NSANA4 ISSN: 0028-0100

Language: ENGLISH

Journal Announcement: 8010

Abstract: **Noise** reduction at its source should be the first consideration of the safety specialist. But even before that, **noise** should have been engineered out of new equipment before it is purchased. If **noise** can not be reduced to safe levels through engineering controls or administrative procedures -- such as rotating employees to minimize their exposure to **noise** hazards -- then the employee must wear proper personal protective equipment. The most effective, economical, and **flexible** method of **noise** reduction is the construction of a barrier or **enclosure** between the **noise** source and the receiver. It is important to consider the use of **sound absorbing** material on the inside surfaces of a **noise** barrier, especially when a full or partial **enclosure** is being designed. To control vibration, it is necessary to prevent the structural transmission of vibrational energy between the source and the surface.

42/7/35 (Item 35 from file: 23)

DIALOG(R) File 23:CSA Technology Research Database

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0003849405 IP ACCESSION NO: 9011F1-P-0903; 2001-61-002274

Designing for Noise, Vibration, and Shock Control

McConnell, V P

Plast. Des. Forum, v 15, n 2, p 29-32, 43-44, 46, 49, Mar.-Apr. 1990

PUBLICATION DATE: 1990

PUBLISHER: Advanstar Communications, Inc., 131 W. First St., Duluth, MN, 55802

COUNTRY OF PUBLICATION: USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

ISSN: 0362-9376

FILE SEGMENT: Engineering Materials Abstracts; Mechanical & Transportation Engineering Abstracts

ABSTRACT:

Moving parts create a dynamic energy force. Designers have to decide whether to confine, absorb, or isolate this energy. Both active and passive **noise**-control systems exist--the former is an adaptive electromechanical solution that produces acoustic **sound** waves to cancel those created by vibration. Passive systems involve the use of plastic, composite, porous foam, and rubber-like materials in product construction. Selecting the

appropriate material depends on the type and severity of the **noise** problem. Barrier materials use mass, expressed in lb/ft², to block **noise** transmission most effectively at mid-to-high frequencies (> 500 Hz). Typically, solid, **flexible**, mineral-loaded vinyl and urethane sheets are used in these applications. Absorption materials dissipate airborne **sound** into low-grade heat when it builds up inside a space. Porous, semiopen-celled thermoset foam and glass-fiber blankets are typically used. Both vinyl and polyurethane sheet and tiles, as well as specially formulated foams, are used as a **sound - damping** material, which lowers the amount of structure-borne resonant vibration. Mastic solutions and adhesive films are effective in these applications as well. For vibration isolation, elastomeric materials can be used in mounts, grommets, gaskets, gears, bearings, and pulleys to attenuate the relative movement of rigid parts in motion with each other. From a shock-protection standpoint, high-density PU foam offers good **compression-set** resistance and strength against impact. Structural foam such as PPO, PC, and ABS can exhibit inherent **sound-control** characteristics. A closer look at these materials in specific applications illustrates selection criteria. A reduced frequency nomogram is used in an example **case** involving a high performance thermoplastic **damping** sheet operating at 10 deg C and a frequency of 500 Hz. --M.W.C.

42/7/39 (Item 39 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2006 FIZ TECHNIK. All rts. reserv.
00704228 M93068116601
Sound damper for hydrosanitary plants
(Schalldaeempfer fuer Hydrosanitaeranlagen)
Orlandi, A
Galatron S.r.l., Castiglione d/Stiviere, I
1992
Document type: European patent application Language: English
Record type: Abstract
ABSTRACT:
Sound **damper** or **silencer** for eccentric unions, conduits or devices designed for the passage of a fluid, mainly water, consisting of a **casing** having the shape of a tubular sleeve made of **elastic** plastic material or rubber of appropriate hardness, characterized in that said **casing** or sleeve (10) shows two coaxial walls (13, 14) spaced one from the other, one inner wall (13) defining an axial hole (15) with a conical development tapering in the direction of the fluid flow crossing it, and an outer wall (14) which is closely connected (16) to the inner one at the extremity of the **casing** or sleeve where the axial conical hole (15) is bigger, and in that between the inner and the outer wall (13, 14) some openings or spaces (17) are obtained which are open towards the extremity of the **casing** or sleeve where the axial hole (15) is smaller and closed on the opposite side. (No obligations as to scope of patent protection and application.)

42/7/43 (Item 43 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2006 Elsevier Science B.V. All rts. reserv.
05375415 EMBASE No: 1993143514
In-situ estimation of an acoustic source in an enclosure and prediction of interior noise by using the principle of vibroacoustic reciprocity

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373-1 Kusung-dong, Yusung-ku, Taejon 305-701 South Korea

Journal of the Acoustical Society of America (J. ACOUST. SOC. AM.) (

United States) 1993, 93/5 (2726-2731)

CODEN: JASMA ISSN: 0001-4966

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

The volume velocity of an acoustic source can be widely used in determining the vibroacoustic transfer functions, in measuring the acoustic transfer impedances, and in finding the generated power of an acoustic source. Several techniques utilizing special experimental devices have been proposed for this purpose, including the laser velocimetry, the internal pressure measurement, and the face-to-face electroacoustic measurement. However, for a source in an **enclosure** with **flexible** walls, the vibroacoustic coupling should be considered, especially in the **case** of a loudspeaker source that has low internal mechanical impedance. The present method, which uses the principle of vibroacoustic reciprocity, can give a reasonable estimation of the transfer functions and can be used in determining the volume velocity of a source *in situ*. Because the present method does not require a special facility or the information on the source surface vibration, the method can be applied to any irregularly shaped source in a **flexible enclosure**. With the obtained vibroacoustic transfer functions, the interior **noise** field in an **enclosure** can be predicted by vectorial summation when the boundary points are excited by uncorrelated dynamic forces. The predicted internal pressure in an **enclosure** is in good agreement with the measured internal pressure even in the presence of **sound absorbers** inside the **enclosure**.

File 9:Business & Industry(R) Jul/1994-2006/Jun 15
 (c) 2006 The Gale Group
 File 15:ABI/Inform(R) 1971-2006/Jun 16
 (c) 2006 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2006/Jun 15
 (c) 2006 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2006/Jun 16
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 (c) 2006 The Gale Group
 File 635:Business Dateline(R) 1985-2006/Jun 16
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 File 636:Gale Group Newsletter DB(TM) 1987-2006/Jun 15
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 File 624:McGraw-Hill Publications 1985-2006/Jun 16
 (c) 2006 McGraw-Hill Co. Inc
 File 135:NewsRx Weekly Reports 1995-2006/Jun W2
 (c) 2006 NewsRx
 File 129:PHIND(Archival) 1980-2006/Jun W2
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Set Items Description

S1 4180203 HOUSING OR CASE OR CASING OR ENCLOSURE OR CHAMBER OR CHAMB-
 RE OR CONTAINER OR HOLDER
 S2 547275 BLOWER OR COMPRESS?R OR FAN OR PUMP
 S3 472843 BAG OR BAGLIKE OR POUCH OR POCKET
 S4 3 SUBHOUSING
 S5 989972 FLEXIBLE OR PLIANT OR ELASTIC OR BENDABLE
 S6 11654 (SOUND? ? OR NOISE? ?) (2N) (ATTENUAT? OR DAMPEN? OR DAMP???
 OR ABSORB? OR MUFL?)
 S7 135 S1(S)S2(S)S6
 S8 2 S3:S5(S)S7
 S9 133 S7 NOT S8
 S10 112 RD (unique items)
 S11 3 S10/1999
 S12 8 S10/2000
 S13 11 S10/2001
 S14 9 S10/2002
 S15 15 S10/2003
 S16 8 S10/2004
 S17 9 S10/2005
 S18 4 S10/2006
 S19 45 S10 NOT S11:S18
 S20 45 Sort S19/ALL/PD,A

8/7/2 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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00939638

Xerox's new electronic typewriter uses sound-absorbing foam panels made by
 Specialty Composites (Newark, DE).

Design News August 8, 1983 p. 56,57

The Memorywriter combines a daisy-wheel print mechanism with
 electronic circuitry for correction and editing functions. Design
 considerations sought to reduce the print mechanism noise by employing

non-metal typing elements, changing cooling fan design, and using membrane switches. The permeable foam material, Tufcote Embossed Foam, used for the **sound - absorbing** panel in the machine's noise containment **housing** is a continuously cast, **flexible** urethane foam with decorative embossed front surface. The Tufcote Acoustaseal gasket material is a closed-cell sponge rubber with film-carrier, pressure-sensitive adhesive backing. These noise-control measures are designed to assure the Memorywriter's compatibility and acceptance in quiet office environments. Additional details: Speciality Composites, Delaware Industrial Pk, Newark, DE 19713

1 20/7/11 (Item 11 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

(c)2006 The Gale Group. All rts. reserv.

04112702 SUPPLIER NUMBER: 07988727 (THIS IS THE FULL TEXT)

Air-cooled diesel added to Wisconsin Robin line. (Teledyne Total Power, diesel motor manufacturer)

Diesel Progress, v55, n9, p46(2)

Sept, 1989

TEXT:

Air-Cooled Diesel Added To Wisconsin Robin Line

Teledyne Total Power has recently introduced two completely new air-cooled diesel engines to its Wisconsin Robin line. Designed for a variety of power applications, the WRD1-230 and WDR1-270 are both single cylinder, four-cycle engines, with an overhead valve design. The addition of these new heavier-duty models allows Teledyne Total Power, Memphis, Tenn. to expand into markets previously dominated by gasoline engines.

The two new engines are the WRD1-230 and the WRD1-270 with 3600 rpm ratings of 4.8 hp and 5.5 hp respectively. Bore and stroke are: WRD1-230, 70 x 60 mm; and 75 x 60 mm for the WRD1-270. Other specifications can be found in the accompanying charts.

Both engines feature a lightweight, one-piece aluminum alloy crankcase with a cast iron cylinder liner, a chromed steel crankshaft and forged aluminum alloy connecting rods.

Reducing operating **noise** and vibration were central design factors for the new engines. Both the **blower housing** and cylinder baffle are constructed of **sound - attenuating** laminated steel. A dual-element air cleaner and large, industrial grade **muffler** are included in the noise package.

Vibration is damped by a balancer shaft. A centrifugal automatic decompression system is designed to contribute to easier starting and to prevent excessive vibration during stopping.

The fuel consumption reflected in the performance curve can be attributed to a newly developed microfuel injection pump which provides precisely synchronized fuel injection, and by the swirl chamber design of the cylinder head. The flat torque characteristics are evident from the chart.

To adapt to a variety of powered-equipment use, both engines are offered in both direct output and 1800 rpm reduction-type versions. SAE A and B flanges are available, as are a selection of pto shafts. A pull recoil starter is standard, with electric start available as an option. An auxiliary fuel inlet is provided for improved cold weather starting.

PHOTO : New to Teledyne Total Power's Wisconsin Robin diesel line is a pair of direct-injection

PHOTO : air-cooled diesels. The new WRD1-230 and the WRD1-270 carry 3600 rpm ratings of 4.8 hp and

PHOTO : 5.5 hp respectively.

CAPTIONS: Specifications for new Wisconsin Robins diesels. (table); Power and torque data. (graph)

COPYRIGHT 1989 Diesel and Gas Turbine Publications

20/3,K/1 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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00342951

Noise regulation strikes a sour note: Since the late 1960s some progress been made--e.

Fortune March, 1976 p. 58-1621

... cases. Two ways to protect hearing are an example. A worker must check a noisy pump. In one mode he wears protective earmuffs, which cost \$5.50 and lower the noise he hears from 91 to 71 decibels. In another the pump is enclosed in a sound-absorbent casing, which cost \$1,250 and lowers the level from 91 to 86 decibels. Currently the...

20/3,K/2 (Item 2 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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00406180

A new dust collector designed to operate efficiently under the high air pressures common to process industries has been developed by Torit Div, Donaldson Co Inc.

News Release (for further information apply to company indexed) February 22, 1978 p. 11

... nuisance dust) in such high-pressure applications as pneumatic conveying and bin venting. Its round housing, rated at 220 in of water, is designed to withstand greater pressures than conventional rectangular... ... ft³ hopper, the collector can be fitted with a 55-gal drum or rotary airlock. Blower pack options include 3 hp, 5 hp, or remote exhausters.

Sound attenuators and explosion vents are also available as optional equipment. The collector can be installed singly...

20/3,K/4 (Item 4 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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01503933

NEW QUIET BYPASS VACUUM MOTOR Provides 90% Reduction in Sound Power.

NEWS RELEASE September 25, 1986 p. 11

... This noise reduction is achieved through a Compound Diffusion. and labyrinth system within the motor fan chamber and through a more efficient channeling of the ventilating air. These ACUSTEK vacuum motors are...

... either a significant reduction in audible noise, or potential savings through the need for less sound absorbing material in vacuum cleaner housing design. These new models feature the patented Lamb air seal bearing protection system, an epoxy coated fan system, dual ball bearing construction for longer life and either a provision for grounding or...

20/3,K/5 (Item 5 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.
01542442

A new line of compact, space saving vane axial fans has just been announced by the Joy Manufacturing Company .

NEWS RELEASE December 15, 1986 p. 11

...or the space required for free standing fans within equipment rooms. A conventional vane axial fan consists of a cylindrical **casing** with internally mounted motor, rotor and air straightening vanes. An "outlet cone" is generally attached to the fan discharge end to improve its overall efficiency and reduce operating cost. To achieve its compact size, the COMPAX fan combines the function of the outlet cone and the **fan casing**. The net result is a unit approximately three (3) feet shorter than the typical **fan-outlet cone** air handling arrangement. Another advantage of the COMPAX fan arises from the fact that fans must be a specified distance from heating and cooling coils to allow for even air flow and avoid moisture carryover to the fan. To maintain this distance in cramped areas, the fan sometimes has to be pushed closer than desired to the discharge **sound attenuator**.

20/3,K/6 (Item 6 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
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01764321

LeROI EXPANDS WE-SERIES ROTARY SCREW COMPRESSOR LINE

News Release August 4, 1987 p. 1

... the introduction of the WE125SS, improvement continues with WEH125SS, WE150SS and WEH150SS stationary rotary screw **compressor** packages. The new additions to the WE-Series line offer reduced costs and greater efficiency...

... such as a high discharge air temperature shutdown switch, pressure release valve, drive coupling and fan guard ensure safety and help eliminate costly equipment damage. As with all of LeROI's...

... **housings** feature hinged doors and removable panels, offering greater component protection. LeROI's Quiet **Housing** includes low **noise attenuation** to reduce **sound** levels even further.

Full text available on PTS New Product Announcements.

20/3,K/7 (Item 7 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
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01809348

Advances: Rebuilding planes to cut airport noise

New York Times (National Edition) November 18, 1987 p. 32
ISSN: 0362-4331

... McDonnell Douglas MD-80. The 3rd engine would be modified. The replacement engines produce less **fan noise**, and expel exhaust gas at a lower velocity, which also reduces **noise**. The inner and outer walls of the **case** around the fan and the tailpipe are lined with **sound - absorbing** structure. Modifications to the 3rd engine would involve installing a Pratt & Whitney forced air mixer to mix airflow from the fan with hotter air from the turbines, reducing temperature and speed of the gas leaving the...

20/3,K/9 (Item 9 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
03906941 SUPPLIER NUMBER: 07484803 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Recovering heat from air compressors.

Burke, Peter Y.

Plant Engineering, v43, n5, p64(3)

March 23, 1989

ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1176 LINE COUNT: 00097

... standard and includes sound-absorbing materials and cabinet flooring. A built-in motor-driven cooling **fan** draws ambient air through intake filter mats, which provide the primary filtration. A portion of this air enters the intake filter/canister first, and then the **compressor housing**. The remaining air flows past the primary components of the **compressor** package (motor, **compressor housing**, air/oil separator, and drive belt arrangement), absorbing the heat created by power transmission losses. The prefiltered ambient air helps maintain moderate operating temperatures and allows the **compressor** to run at rated capacity continuously without overheating or overloading.

Before the air leaves the...

20/3,K/14 (Item 14 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2006 McGraw-Hill Co. Inc. All rts. reserv.
0386659

**P&WC Engines Make First Flight On Falcon 20 Business Jet: Volpar
Re-Engineers See Market For Hundreds Of Aircraft**

Aerospace Propulsion, Vol. 2, No. 4, Pg 5

February 21, 1991

JOURNAL CODE: ASP

SECTION HEADING: O&M ISSN: 1050-5245

WORD COUNT: 564

TEXT:

... the company's chief of materials engineering. P&W shifted to a cast gas generator **case** of 6242 titanium and 6246 alloy for parts of the beta-forged impeller, he says, while the **fan** shroud uses an aluminum containment ring wrapped in Kevlar aramid fiber with Nomex honeycomb for **noise attenuation**.

An advanced composite bypass duct is in development for the 305, Cooper says, and notes...

20/3,K/15 (Item 15 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
05150852 SUPPLIER NUMBER: 10662638 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A hush hush story. (noise control in the paper industry) (Pollution/Energy Focus)

Pettersson, Henrik

Paper, v215, n5, p26(2)

March 19, 1991

ISSN: 0306-8234 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 981 LINE COUNT: 00081

... absorption material is replaceable.

GENERAL ASPECTS

Besides **sound** attenuation, in many cases the insulation of **fan noise** through the **casing** and the motor **noise** must also be considered. Fans on the building roof must normally be located in a separate **fan room**, if the residential area is located close to the mill...

20/3,K/17 (Item 17 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
(c) 2006 The Gale Group. All rts. reserv.

05548453 SUPPLIER NUMBER: 11588439 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Strategies in noise reduction: OEMs and suppliers channel their resources toward solving the problems of noise and vibration in appliances. (Cover Story)

Henry, Anne

Appliance, v48, n11, p41(5)

Nov, 1991

DOCUMENT TYPE: Cover Story ISSN: 0003-6781 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 3603 LINE COUNT: 00297

... however, do not require secondary machining. But before the company could take advantage of the **sound dampening** quality of plastics, a material had to be selected that would withstand the high heat...

20/3,K/18 (Item 18 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

02423255 Supplier Number: 43190628

Dewatering Without De Noise

Diesel Progress Engines & Drives, p22

August, 1992

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

ABSTRACT:

Alco Pump (New Smyrna Beach, FL) is specifying Hatz Silent Packs as standard equipment on its **pump** sets. The systems utilized comprise 2-, 3- and 4-cylinder air-cooled diesel engines generating 16-70 hp encapsulated within a **sound attenuated enclosure**. The engines include the 2L31C, a 2-cylinder engine with 1.47 L displacement; the...

...cylinder engine having a 3.4 L displacement. The Silent Pack system, which uses differnt **noise** and vibration **attenuating** accessories, is designed to bring a major **noise** decrease over an unencapsulated engine. The engines were provided by Engine Power Supply (Orlando, FL), a Hatz marketer. Alco's **pump** sets are used for different purposes. Hubbard Construction is now employing 7 of the **pump** sets for building a highway bypass on Orlando's east side. Another typical use for...

20/3,K/19 (Item 19 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
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06201360 SUPPLIER NUMBER: 13618233 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Acoustic treatment reduces station noise emissions. (Gas Operations Report)

Pappas, G.P.

Pipe Line Industry, v75, n10, p19(4)

Oct, 1992

ISSN: 0032-0145 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 2993 LINE COUNT: 00250

... can either be treated individually, or collectively by using a compressor building designed specifically for noise attenuation.

The building is designed to simultaneously address many acoustic requirements. The most important requirement is...

20/3,K/20 (Item 20 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00681345 93-30566

On the cutting edge

Anonymous

Appliance Manufacturer v41n2 PP: T16-T18 Feb 1993

ISSN: 0003-679X JRNL CODE: APL

WORD COUNT: 2051

...TEXT: damping metals are used on some engine shrouds in the commercial division and on some blower shrouds on the consumer side. The all-plastic housing of the Superblower 850 cuts the whine without impeding performance. Advanced fan technology on the...

20/3,K/21 (Item 21 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

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06494872 SUPPLIER NUMBER: 14082180 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Quiet operation for new Onan gen-sets. (Cummins/Onan's Quiet Site generators) (Power Generation) (Product Announcement)

Schulz, Bob

Diesel Progress Engines & Drives, v59, n5, p6(2)

May, 1993

DOCUMENT TYPE: Product Announcement ISSN: 1040-8878 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 795 LINE COUNT: 00064

... from the surface of the set.

The sound attenuating design draws cooling air into the enclosure via a radial discharge fan, divides it into two flow paths, one channeled through a horizontally-mounted radiator and the...

20/3,K/22 (Item 22 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

(c) 2006 The Gale Group. All rts. reserv.

06750117 SUPPLIER NUMBER: 14533260 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Portable CNG fill station/compressor. (compressed natural gas) (Alternative Fuels Special Report)

Brezonick, Mike

Diesel Progress Engines & Drives, v59, n10, p60(2)

Oct, 1993

ISSN: 1040-8878 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 752 LINE COUNT: 00060

... or trailer-mounted (4150 lb.). Machine weights include all fluids and enclosures. The enclosure includes sound - attenuating insulation, which reduces noise emissions to 65 db(A) at five meters, Hurricane

Compressors said.

20/3,K/23 (Item 23 from file: 16)
DIALOG(R) File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.
03350684 Supplier Number: 44641071
New hydraulic pump/motor combo is quiet and compact
Plastics Technology, p16
May, 1994
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade
ABSTRACT:
Vickers (Maumee, OH) has developed a new integrated hydraulic motor/ **pump** (IMP) combination that combines the company's hydraulic **pump** with a novel oil-cooled electric motor in a single compact package. The IMP is enclosed in a **sound - absorbing** shroud and does not have a **fan**, both of which help reduce **noise**. The unit is cooled by hydraulic fluid flowing through the **housing** to the **pump**. The IMP has increased cooling capacity which allows it to run non-stop above its no-load rating. The IMP has around a 30-45% smaller footprint than a standard **pump** and motor, but also costs about 10-15% more.

20/3,K/24 (Item 24 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)
(c) 2006 ProQuest Info&Learning. All rts. reserv.
00870745 95-20137
New design integrates motor with pump technology
Anonymous
Machine Design v66n11 PP: 18 Jun 6, 1994
ISSN: 0024-9114 JRNL CODE: MDS
WORD COUNT: 508
...TEXT: and recirculates through the hydraulic system.
The IMP design eliminates the need for a cooling **fan**. Because air flow is not required, the unit is encased in a **sound - absorbing** **housing** to significantly cut noise. A Vickers 60 HP IMP, fitted with a Vickers PVH57 **pump**, operated at sound levels under 71dB through 3,000 psi. The 71dB sound level is...
...12 decibels lower than conventional 1,800 and 1,200 rpm air-cooled motor and **pump** combinations. The noise reduction **housing** is lightweight, polyethylene plastic and is fully rotational in 90deg increments to accommodate **pump** outlet port configurations. Adjustments take place through a removable circular access door.
Hydraulic fluid circulates...

20/3,K/25 (Item 25 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c) 2006 The Gale Group. All rts. reserv.
07301374 SUPPLIER NUMBER: 16097058 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New design integrates motor with pump technology. (Vickers Inc.'s integrated motor pump)
Machine Design, v66, n11, p18(1)
June 6, 1994
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 544 LINE COUNT: 00040

... fan. Because air flow is not required, the unit is encased in a **sound-absorbing housing** to significantly cut **noise**. A Vickers 60 HP IMP, fitted with a Vickers PVH57 **pump**, operated at **sound levels** under 71dB through 3,000 psi. The 71dB sound level is...

...12 decibels lower than conventional 1,800 and 1,200 rpm air-cooled motor and **pump** combinations. The noise reduction **housing** is lightweight, polyethylene plastic and is fully rotational in 90[degrees] increments to accommodate **pump** outlet port configurations. Adjustments take place through a removable circular access door.

Hydraulic fluid circulates...

20/3,K/26 (Item 26 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

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07313901 SUPPLIER NUMBER: 15696771 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Kent CHP project reduces power bill - and meets industrial noise reduction challenge. (Chartham Paper's gas-fired combined-heat-and-power systems installed by BP Energy)

Petroleum Times, v14, n12, p3(1)

June 17, 1994

ISSN: 0261-3883 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 944 LINE COUNT: 00073

... box and generator. At the Chartham mill these three units are contained in a steel **enclosure** lined with **noise absorbing** material, whilst still allowing fresh air to circulate. Configuration of the...

...boiler accommodates silencers fitted to the intake and outlet valves.

Cooling air for the gas **compressor** is also passed through silencers, while ducting which carries intake and exhaust is insulated with heat and noise-containing material. Additional sound-proofing is provided by **noise - absorbent** cladding on the building's internal roof and walls. Finally, double-skinned steel doors make...

20/3,K/27 (Item 27 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

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07483515 SUPPLIER NUMBER: 15634737 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The dB(A)s of hydraulic system noise.

Henke, Russ

Diesel Progress Engines & Drives, v60, n7, p42(3)

July, 1994

ISSN: 1040-8878 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1789 LINE COUNT: 00148

... the situation, the only solution may be to house the system in a **sound attenuated enclosure**.

A well insulated **enclosure** may reduce the **noise** level, but it may also present a cooling problem. To be effective, an **enclosure** should be totally airtight, meaning there is no flow of ambient air to dissipate heat through the **housing**. Thick, **sound-absorbing** and **dampening** materials can be added inside a ventilated **enclosure** covering an entire **pump**/motor/tank system, but this results in only minimal noise reduction...

20/3,K/29 (Item 29 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.
03650172 Supplier Number: 45151848
Turning down drain pump noise
Machine Design, p60
Nov 21, 1994
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:

...machines generate the most irritating **noise** among the household appliances. The **noise** in the drain- **pump** comes from the blending of mechanical and electrical characteristics of the motor, and from mechanical and fluid properties of the impeller and **pump** **housing** . A **noise**-reduction effort by engineers involved two stages. The first stage was to reduce...

...the motor to avoid magnetic coupling. Other **noise** sources were addressed included impeller blade tone, **fan** blade tone, magnetic interaction, pulsating suction **noise**, torsional vibrations, sucking **noise**, magnetic **noise**, structural **noise**...

...and whistling **noise**. The total effect of the effort, which also involved the installation of **sound** **absorbing** material on the side walls of the appliance, was to reduce the **noise** level 8...

20/3,K/31 (Item 31 from file: 624)
DIALOG(R) File 624:McGraw-Hill Publications
(c) 2006 McGraw-Hill Co. Inc. All rts. reserv.
0658811
Biogas, once flared, fuels cogen plant serving two hosts: Digester gas from a wastewater treatment plant meets up to 40% of the fuel needs of this cogenerator. Steam is exported for heating the treatment plant's digesters and for ice production by a second steam host
Jay K Johnson and Colin L McRae, Parsons Brinckerhoff Inc
Edited by Sheldon Strauss
POWER, Vol. 139, No. 4, Pg 73
April, 1995
JOURNAL CODE: POW
SECTION HEADING: POWERPLANT PROFILES ISSN: 0032-5929
WORD COUNT: 1,235
TEXT:
... optimum turbine efficiency, both GTs are equipped with inlet-chilling and -heating systems to keep **compressor** inlet temperatures at or near 48F. **Noise** produced by the generator is reduced by a **sound** - **attenuating** **enclosure** ; baffles included in the air intake and discharge systems help minimize **noise**. A stack silencer...

20/3,K/37 (Item 37 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c) 2006 The Gale Group. All rts. reserv.
09725806 SUPPLIER NUMBER: 19719385 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Iroquois Gas proposes third New York compressor station. (Iroquois Gas Transmission)
Bullion, Lew
Pipe Line & Gas Industry, v80, n7, p25(3)
July, 1997

ISSN: 1079-8765 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1698 LINE COUNT: 00145

... provided a low-noise lubricating oil cooler that was installed in a separate sound-absorbing enclosure in the compressor building. An oversized, variable-speed fan was installed to run slower and quieter. The design pre-cools lubricating oil by passing...

...200 psi. Further noise reduction was achieved by insulating all oil pipes in the cooler enclosure .

Acoustic panels. The compressor buildings were constructed from pre-engineered steel frames that support custom...

File 155: MEDLINE(R) 1951-2006/Jun 20
(c) format only 2006 Dialog
File 5: Biosis Previews(R) 1969-2006/Jun W3
(c) 2006 The Thomson Corporation
File 73: EMBASE 1974-2006/Jun 22
(c) 2006 Elsevier Science B.V.
File 94: JICST-EPlus 1985-2006/Mar W3
(c) 2006 Japan Science and Tech Corp (JST)
File 144: Pascal 1973-2006/May W4
(c) 2006 INIST/CNRS
File 2: INSPEC 1898-2006/Jun W2
(c) 2006 Institution of Electrical Engineers
File 6: NTIS 1964-2006/Jun W2
(c) 2006 NTIS, Intl Cpyrht All Rights Res
File 8: Ei Compendex(R) 1970-2006/Jun W2
(c) 2006 Elsevier Eng. Info. Inc.
File 95: TEMA-Technology & Management 1989-2006/Jun W3
(c) 2006 FIZ TECHNIK
File 99: Wilson Appl. Sci & Tech Abs 1983-2006/May
(c) 2006 The HW Wilson Co.
File 35: Dissertation Abs Online 1861-2006/Jun
(c) 2006 ProQuest Info&Learning
File 65: Inside Conferences 1993-2006/Jun 22
(c) 2006 BLDSC all rts. reserv.
File 23: CSA Technology Research Database 1963-2006/Jun
(c) 2006 CSA.
Set Items Description
S1 6460194 HOUSING OR CASE OR CASING OR ENCLOSURE OR CHAMBER OR CHAMB-
RE OR CONTAINER OR HOLDER
S2 542179 BLOWER OR COMPRESS?R OR FAN OR PUMP
S3 179328 BAG OR BAGLIKE OR POUCH OR POCKET
S4 3 SUBHOUSING
S5 1332766 FLEXIBLE OR PLIANT OR ELASTIC OR BENDABLE
S6 13906 MUFFLER? ? OR SILENCER? ? OR DAMPENER? ?
S7 30181 (SOUND? ? OR NOISE? ?) (2N) (ATTENUAT? OR DAMPEN? OR DAMP???
OR ABSORB? OR MUFFL?)
S8 489 S1 AND S2 AND (S3:S4 OR S5 (2N) S1)
S9 0 S7 AND S8
S10 26460 S1 AND (S3:S4 OR S5 (2N) S1)
S11 26 S10 AND S6:S7
S12 23 RD (unique items).
S13 1 S12/1999
S14 0 S12/2000
S15 0 S12/2001
S16 0 S12/2002
S17 2 S12/2003
S18 1 S12/2004
S19 1 S12/2005:2006
S20 18 S12 NOT S13:S19
S21 18 Sort S20/ALL/PY,A
S22 7 S2 AND (S3:S4 OR S5 (2N) S1) AND S6:S7
S23 5 S22 NOT S11
S24 5 RD (unique items)

21/7/7 (Item 7 from file: 144)

DIALOG(R) File 144:Pascal

(c) 2006 INIST/CNRS. All rts. reserv.

05767967 PASCAL No.: 84-0269066

Dynamische Wechselwirkungen zwischen Getriebe und Fundament bei elastischer Getriebeaufstellung

(Interactions dynamiques entre une transmission a engrenages et sa fondation dans le cas d'un montage elastique de la transmission)

(Dynamic interaction between a gear drive and its foundations in the case of an elastic drive setting)

WECK M; RAUTENBACH W

Journal: VDI-Z, 1984, 126 (13) 485-490

ISSN: 0042-1766 Availability: CNRS-340

No. of Refs.: 8 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: Federal Republic of Germany

Language: German

21/7/14 (Item 14 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2006 FIZ TECHNIK. All rts. reserv.

00768345 M94038275610

Automotive muffler and dust catcher assembly

(Kraftfahrzeug-Schalldämpfer und -Staubsaenger-Zusammenbau)

Lin, Chi-Hsiang

Chia Shih Enterprises, Min Hsiung Hsien, chia I, RC

1993

Document type: European patent application Language: English

Record type: Abstract

ABSTRACT:

An automotive **muffler** and dust catcher comprising: a dust catcher (2) said dust catcher comprising a **casing** having a bottom end thereof closed and a top end thereof opened, and a dust **bag** (7) placed inside said **casing** for catching dirt in a motor vehicle's exhaust emission, said top end of said **casing** having an outward horizontal flange (5) around a peripheral edge thereof, said outward horizontal flange having a plurality of hooks (6) spaced on a bottom edge thereof at equal interval; and a **muffler** (1) attached to said dust catcher (2), said **muffler** comprising a cylindrical **casing** having a ring (3) externally attached to a reducing bottom end thereof, said reducing bottom end of said **muffler** (1) being inserted through said top end of said dust catcher (2) with said ring (3) attached to said outward horizontal flange (5) by snap fasteners (4) on said ring releasably respectively fastened to said hooks (6) on said outward horizontal flange, the cylindrical **casing** of said **muffler** having an intake pipe (9) tangent to a peripheral wall thereof for guiding a motor vehicle's exhaust emission into said **muffler**, an outlet pipe (8) on a top face thereof for exhaust of intake gas, a hopper-shaped water guide (10) fastened inside said reducing bottom end at a location below said ring (3), and at least one through hole (11) formed in the cylindrical **casing** of said **muffler** at a location between said hopper-shape water guide (10) and said ring (3). (No obligations as to scope of patent protection and application.)

24/7/1 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c) 2006 Japan Science and Tech Corp (JST). All rts. reserv.

00177270 JICST ACCESSION NUMBER: 86A0048811 FILE SEGMENT: JICST-E
Development of Small Bore Pneumatic Refuse Conveying System.
OKADA KATSUYUKI (1); HOSHII OSAMU (1); TANIMURA KEIZO (1); SHIBANO
TOSHIHIRO (1)
(1) Shinryo Air Conditioning Co., Ltd.
Kuki Chowa, Eisei Kogaku, 1985, VOL.59,NO.12, PAGE.1237-1245, FIG.16, TBL.4
JOURNAL NUMBER: F0331AAY ISSN NO: 0386-4081 CODEN: KCEKA
UNIVERSAL DECIMAL CLASSIFICATION: 621.6
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

24/7/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2006 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.
2106696 NTIS Accession Number: DE97053808/XAB
Pulsed atmospheric fluidized bed combustion. Quarterly report, July 1--
September 30, 1995
(PROGRESS REPT)
USDOE Assistant Secretary for Fossil Energy, Washington, DC (United
States).
Corp. Source Codes: 888888888
Report No.: DOE/MC/27229-5749
31 Dec 95 19p
Languages: English
Journal Announcement: GRAI9907; ERA9901
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located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A03/MF A01
Country of Publication: United States
Contract No.: FC21-90MC27229
The report summarizes progress in design, fabrication, and construction
activities. Progress on the fluid bed combustor, piping, fuel feeding
system, ash system, and the control and instrumentation design is
described. The report lists the construction activities completed during
this quarter which included bed tubes installation, fan inlet flow
measuring duct, bag filter, silencers for roots blowers, electric power
cabling connections, light distributor panel and transformer installation
inside the control panel, steam/water recirculation piping, fine coal
receiving vent filter, and partial painting of ash silo and boiler.

24/7/3 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.
02766528 E.I. Monthly No: EI8908076914
Title: Using a pneumatic blower to deposit clarifier solids in a
landfill.
Author: Frost, Eugene; Vossen, Michael; Pihlaja, Al
Corporate Source: Boise Cascade Papers, St. Helens, OR, USA
Source: Tappi Journal v 72 n 3 Mar 1989 p 241-242
Publication Year: 1989

CODEN: TAJODT ISSN: 0734-1415

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 8908

Abstract: Based on previous mill experience of blowing bleached pulp at 20-40% solids, a pneumatic **blower** system was installed at the landfill in late 1986 to deposit and compact clarifier solids on a year-round basis. The equipment consists of a live-bottom hopper, screw feeder, **pocket** feeder, tee injector, **blower**, two **silencers**, and blow-pipe. Solids are dumped into the hopper, from which they are continually fed to a screw conveyor that feeds the **pocket** feeder of the **blower** system. If the pressure in the **blower** system exceeds an upper limit, the dump-hopper drag chain temporarily stops feeding to prevent kick-outs and/or plugging. If the hopper runs empty at any time, the system will blow itself empty and turn off automatically after 8 min. Solids are blown through a 20-cm blow-pipe to a pipe tower with a manually adjustable gooseneck. Overall system performance has been excellent. System throughput depends on the type and moisture content of the clarifier solids. Present throughput is one 28-m³*3 truck in 50 min at 35-40% solids content.

21/6/2 (Item 2 from file: 2)

01092425 INSPEC Abstract Number: A70008240

Title: Giant quantum attenuation of sound waves in bismuth. I. Spin splitting factors of electrons and holes

Publication Date: Oct. 1969

21/6/4 (Item 4 from file: 23)

0002347327 IP ACCESSION NO: 821052-1292

Explosive Forming Comes of Age

PUBLICATION DATE: 1982

21/6/5 (Item 5 from file: 35)

806727 ORDER NO: AAD83-06885

ULTRASOUND ATTENUATION IN PIPE FLOW OF TURBULENT GAS AND SUSPENDED SOLIDS

Year: 1982

21/6/6 (Item 6 from file: 8)

02096928

Title: DYNAMIC INSTABILITY OF LIQUID FREE SURFACE IN A CONTAINER WITH ELASTIC BOTTOM UNDER COMBINED HARMONIC AND STOCHASTIC LONGITUDINAL EXCITATION.

Conference Title: Random Vibrations. (Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers.)

Publication Year: 1984

21/6/8 (Item 8 from file: 23)

0003619926 IP ACCESSION NO: 900345-0270

Dust Extraction After a Ladle Furnace in a Steelworks

PUBLICATION DATE: 1989

21/6/9 (Item 9 from file: 2)

05417028 INSPEC Abstract Number: A9313-6265-008

Title: Order and disorder in high-temperature long-wave acoustics. I. Dielectrics, semiconductors, and conductors

Publication Date: Nov. 1992

21/6/13 (Item 13 from file: 8)
03633429
Title: Recent topics concerning the acoustics of fibrous and porous materials
Publication Year: 1993

21/6/17 (Item 17 from file: 35)
01556708 ORDER NO: AAD97-16316
ELASTIC PROPERTIES OF NOVEL MATERIALS USING PVDF FILM AND RESONANT ACOUSTIC SPECTROSCOPY (ULTRASOUND, PROPPANTS, QUASICRYSTAL)
Year: 1996

21/6/18 (Item 18 from file: 94)
03227779 JICST ACCESSION NUMBER: 97A0475404 FILE SEGMENT: JICST-E
Development of low-cost absorbing materials for track surface. , 1997

24/6/4 (Item 1 from file: 95)
01449290 20000903015
High frequency fatigue failure in silencer /pulsation dampers for oil-free screw compressors
(Hochfrequenz-Ermuedungsbrueche in Schall-/Pulsationsdaempfern fuer oelfreie Schraubenverdichter)
1999

File 9:Business & Industry (R) Jul/1994-2006/Jun 21
(c) 2006 The Gale Group
File 16:Gale Group PROMT(R) 1990-2006/Jun 21
(c) 2006 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2006/Jun 22
(c) 2006 The Gale group
File 148:Gale Group Trade & Industry DB 1976-2006/Jun 22
(c) 2006 The Gale Group
File 621:Gale Group New Prod.Annou. (R) 1985-2006/Jun 21
(c) 2006 The Gale Group
File 635:Business Dateline(R) 1985-2006/Jun 21
(c) 2006 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2006/Jun 21
(c) 2006 The Gale Group
File 624:McGraw-Hill Publications 1985-2006/Jun 21
(c) 2006 McGraw-Hill Co. Inc
File 135:NewsRx Weekly Reports 1995-2006/Jun W2
(c) 2006 NewsRx
File 129:PHIND(Archival) 1980-2006/Jun W2
(c) 2006 Informa UK Ltd
File 441:ESPICOM Pharm&Med DEVICE NEWS 2006/Jan W2
(c) 2006 ESPICOM Bus.Intell.
File 141:Readers Guide 1983-2006/Feb
(c) 2006 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2006/Jun W3
(c) 2006 ProQuest
Set Items Description
S1 4529376 HOUSING OR CASE OR CASING OR ENCLOSURE OR CHAMBER OR CHAMB-
RE OR CONTAINER OR HOLDER
S2 628408 BLOWER OR COMPRESS?R OR FAN OR PUMP
S3 571953 BAG OR BAGLIKE OR POUCH OR POCKET
S4 3 SUBHOUSING
S5 999193 FLEXIBLE OR PLIANT OR ELASTIC OR BENDABLE
S6 20205 MUFFLER? ? OR SILENCER? ? OR DAMPENER? ?
S7 13584 (SOUND? ? OR NOISE? ?) (2N) (ATTENUAT? OR DAMPEN? OR DAMP???
OR ABSORB? OR MUFFL?)
S8 28407 S1(S) (S3 OR S4 OR S5(2N)S1)
S9 19 S6:S7(S)S8
S10 1 S2(S)S9
S11 18 S9 NOT S10
S12 16 RD (unique items)
S13 16 Sort S12/ALL/PD,A

10/7/1 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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06496347 SUPPLIER NUMBER: 14109384 (THIS IS THE FULL TEXT)

Clean comfort. (Philips Home Products Corp.'s new vacuum cleaner line)

(Clean-Air Vacs)

Remich, Norman C., Jr.

Appliance Manufacturer, v41, n6, p55(2)

June, 1993

TEXT:

Filter system embraces three components on Philips' vacs

Three vacuum cleaners introduced by Philips at Domotechnica in February in Cologne come with a filter system that consists of a double-layer dust **bag**, a motor-protection filter, and the company's AFS MICRO filter.

These components, according to the Netherlands appliance maker, ensure that the air leaving the vacuum cleaner is free of any dust particles and unpleasant smells.

The Clean Comfort cassette contains a large-capacity dust **bag** made of unbleached recycled paper. The **bag** features a special handle for quick and easy removal without coming into contact with the **bag's** contents. The **bag** is equipped with a handy indicator that shows at a glance when it is full. There is no more guessing and throwing away half-empty **bags**.

The three models come with turbo-compressor motors.

The swivel-top vacuum cleaners have a front swivel wheel and two large rear wheels for easy maneuvering. A telescopic tube (hose) adjusts in length for extra convenience and comfort when cleaning.

The top-of-the-line model, known as Blue Magic, has a twin turbo-compressor motor. The motor is controlled by a microprocessor that automatically adjusts the suction power to the level of dust on the floor to save energy and reduce the slide resistance to make cleaning easier.

Fuzzy logic

A pressure sensor accurately measures the negative pressure in the dust **chamber** and passes this information to the micro-processor which uses fuzzy logic to calculate the optimal suction power and slide resistance.

Special buttons can override the control system when necessary and provide minimum, maximum or turbo suction, ranging from 300W to 1400W and 1500W turbo boost.

A **silencer** is integrated in the housing to keep the noise level low.

A specially designed dust detector is conveniently placed at the bottom of the vacuum tube.

The detector indicates whether or not an area of floor is clean by means of a clearly visible red or green light. The green light indicates that there is no more dust passing through the tube and that the floor is clean.

Operating on a low-cost, 9-volt long-life battery, the detector switches on automatically when the vacuum cleaner is on.

The vacuum cleaner is easy and convenient to operate using the remote control which is incorporated in the handgrip. The remote-control handgrip also provides a connection for operating the electric powerbrush accessory.

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13/7/1 (Item 1 from file: 160)
DIALOG(R) File 160:Gale Group PROMT(R)
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01746362

EUROCLEAN VACUUM HAS ABSOLUTE FILTER SYSTEM

News Release May 12, 1987 p. 1

An industrial quality cannister type vacuum cleaner for collection of asbestos or hazardous dust utilizing a HEPA filter that removes 99.99% of dust particles 0.3 microns or larger is being marketed by Euroclean, Itasca, Illinois. The Model UZ 930 HEPA has a chrome plated steel tank with durable injection molded base and cover **housing** a 1.125 HP motor and 4 gallon dust collection **bag**. The vacuum is designed to pass the air through the filter before it passes the motor eliminating contamination from hazardous particles. The filter has 2880 sq. in. area for efficient

collection of particles. The dust bag wraps around the motor to muffle sound for very quiet operation (less than 70 dba). The vacuum comes with a 6 ft. suction hose, telescoping wand, dual mode floor tool, combination brush/nozzle and crevice tool.

Full text available on PTS New Product Announcements.

13/6/3 (Item 3 from file: 16)
03880370 Supplier Number: 45577500 (USE FORMAT 7 FOR FULLTEXT)
CUSTOMISED LAMINAR FLOW EXTRACTION SYSTEMS
June, 1995
Word Count: 1016

FOREIGN AND INTERNATIONAL PATENTS

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200639
(c) 2006 The Thomson Corp.

File 347:JAPIO Dec 1976-2005/Dec (Updated 060404)
(c) 2006 JPO & JAPIO

Set	Items	Description
S1	3372344	HOUSING OR CASE OR CASING OR ENCLOSURE OR CHAMBER OR CHAMB- RE OR CONTAINER OR HOLDER
S2	852380	BLOWER OR COMPRESS?R OR FAN OR PUMP
S3	241586	BAG OR BAGLIKE OR POUCH OR POCKET
S4	37	SUBHOUSING
S5	846263	FLEXIBLE OR PLIANT OR ELASTIC OR BENDABLE
S6	20283	MUFFLER? ? OR SILENCER? ? OR DAMPENER? ?
S7	31374	(SOUND? ? OR NOISE? ?) (2N) (ATTENUAT? OR DAMPEN? OR DAMP??? OR ABSORB? OR MUFFL?)
S8	91400	S1 AND (S3 OR S4 OR S5 (2N) S1)
S9	263	S6:S7 AND S8
S10	58	S2 AND S9
S11	3799	S1(10X) (S1(2N) S5)
S12	66903	S1 AND S3:S4
S13	161	S11:S12 AND S6:S7
S14	43	S2 AND S13
S15	37539	IC=(A61M-016? OR F24F-013?)
S16	2	S14 AND S15
S17	2	S13 AND S15
S18	0	S17 NOT S16
S19	2	S9 AND S15
S20	0	S19 NOT S16
S21	7	S11(S) S6:S7
S22	7	S21 NOT S16
S23	125	S6:S7 (S) S12
S24	132	S6:S7(10N) (S3 OR S4 OR S1(2N) S5)
S25	54	S1(S) S24
S26	11	S2 AND S25
S27	10	S26 NOT (S16 OR S21)

16/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

012499174 **Image available**

WPI Acc No: 1999-305278/199926

XRAM Acc No: C99-089776

XRPX Acc No: N99-228808

Filter for air entering building

Patent Assignee: HAVARD P (HAVA-I)

Inventor: HAVARD P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2770894	A1	19990514	FR 9714468	A	19971113	199926 B

Priority Applications (No Type Date): FR 9714468 A 19971113

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

FR 2770894	A1	17	F24F-013/28	
------------	----	----	-------------	--

Abstract (Basic):

... situated at the side of the window frame and has filters (14, 16) and a **blower** drive (18). The inner walls of the channel (10) are lined with a **sound - absorbing** foam. The filters include a tapering **bag** (32) inside a **housing** (28) with a cover (30), and an active carbon filter (40).

... 18). The inner walls of the channel (10) are at least partly lined with a **sound - absorbing** foam, and the filters include a tapering **bag** (32) inside a **housing** (28) with a cover (30), and an active carbon filter (40). The drive comprises an...

...**Filter housing** (28...)

...**Filter bag** (32...)

International Patent Class (Main): **F24F-013/28**

...International Patent Class (Additional): **F24F-013/24**

22/7/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

012220511 **Image available**

WPI Acc No: 1999-026617/199903

Electric motor control drive for motor vehicles, especially for central locking - has fixing bolt protruding into opening in vehicle body part and through opening in housing containing noise damper mounted connected to housing by elastic material e.g. rubber O-ring

Patent Assignee: HELLA HUECK & CO KG (WESF)

Inventor: STUEMPL J

Number of Countries: 025 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 884436	A2	19981216	EP 98110624	A	19980610	199903 B
DE 19724877	A1	19981224	DE 1024877	A	19970612	199906
DE 19724877	C2	20010628	DE 1024877	A	19970612	200137

Priority Applications (No Type Date): DE 1024877 A 19970612

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 884436	A2	G	6	E05B-047/00	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

DE 19724877	A1			G10K-011/16	
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DE 19724877	C2			G10K-011/16	
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Abstract (Basic): EP 884436 A

The motor has a **housing** (2) with a control element (3) and at least one fixing bolt (4) which protrudes into an opening (5) in a vehicle body part (6) and through a through opening (7) in the **housing**. A **noise damper** (8) mounted in the through opening is connected to the **housing** by **elastic** material.

The through opening has a hollow **chamber** (10) with the **elastic** material in contact with its end and side walls. The **noise damper** is a sleeve with the **elastic** material in the form of an O-ring (9), esp. of rubber, on its circumference.

ADVANTAGE - A higher level of **noise** comfort is achieved for the vehicle user during normal operation.

Dwg.1,2/5

Derwent Class: P86; Q47; V06; X22

International Patent Class (Main): E05B-047/00; G10K-011/16

International Patent Class (Additional): E05B-065/36; H02K-005/24;
H02K-007/06

27/7/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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010306298

WPI Acc No: 1995-207556/199528

Moving-type dust collecting unit

Patent Assignee: BAOSHAN GEN IRON & STEEL WORKS (BAOS-N)

Inventor: ZHOU Q; ZHU Y

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1086158	A	19940504	CN 92108610	A	19921026	199528 B

Priority Applications (No Type Date): CN 92108610 A 19921026

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CN 1086158	A		B08B-015/04	

Abstract (Basic): CN 1086158 A

Moving type dust-removing unit, includes high-pressure **fan** (with outlet **silencer**), horn-conical cyclone dust collector and **bag** type dust collector capable of mechanically vibrating to remove ash. This dust-removing unit can be installed on a chassis of dump truck and its upper dump body so as to make this dust-removing unit meet the repair use in different places. The cyclone dust collector and **bag** type dust collector are respectively equipped with an ash **chamber**, and the end of each ash **chamber** is equipped with an oil cylinder for closing and opening ash-discharging door with rubber sealing gasket.

Derwent Class: J01; P43; Q15; Q41; Q77

International Patent Class (Main): B08B-015/04

International Patent Class (Additional): B01D-050/00; B08B-005/04;
B60P-003/00; E01H-001/08; F27D-001/16

27/7/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.
007457456 **Image available**

WPI Acc No: 1988-091390/198813

Noise suppressor for turbo- compressor - is rectangular open-ended box suspended from housing by flexible wall tubes and lined with sound absorbent material

Patent Assignee: CAN-AM ENG PROD INC (CANA-N)

Inventor: TOTH D W

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4729722	A	19880308	US 86927081	A	19861105	198813 B
CA 1280373	C	19910219				199113

Priority Applications (No Type Date): US 86927081 A 19861105

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4729722	A	5		

Abstract (Basic): US 4729722 A

The air supply system comprises a hollow box-like base having a closed internal **chamber**. A drive motor is mounted upon the base and has a drive shaft projecting into the **chamber**. A turbo **compressor** includes a **housing** mounted on the base and a drive shaft projects from the **housing** into the **chamber**. A drive train in the **chamber** couples the drive shafts to each other to enable the motor to drive the turbo **compressor**.

The turbo **compressor** **housing** has an air intake and an air outlet adapted to be coupled to a paint spray system. **Noise** suppressors are disposed beneath the base and have an inlet compartment having an ambient air inlet and a separate outlet compartment.

Sound absorption material lines the interior of the inlet and outlet compartments.

USE - For a paint spray system.

1/3

Derwent Class: Q56

International Patent Class (Additional): F04B-039/00

27/7/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003990457

WPI Acc No: 1984-136001/198422

Quantity indicator for suction cleaner filter bag - has sound absorber with housing forming part of pressure chamber closed on one side of diaphragm

Patent Assignee: VORWERK & CO INTERHOLDING GMBH (VORW)

Inventor: BIRR H J; GUHNE W; SCHAFFER H

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2130117	A	19840531	GB 8323938	A	19830907	198422 B
FR 2536264	A	19840525				198426
GB 2130117	B	19860611				198624
CH 659379	A	19870130				198706
AT 8304044	A	19890815				198937
IT 1171883	B	19870610				199005

Priority Applications (No Type Date): DE 82U32270 U 19821118

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

GB 2130117 A 5

Abstract (Basic): GB 2130117 A

The cleaner comprises a fan connected to a downstream dust-collecting bag by a passage (11,12) which is partly lined with sound-absorbing material (10). A sensing device (8) which monitors the pressure in the passage, and hence the degree of filling of the bag, comprises a diaphragm (15) one side of which is connected to the passage through the material (10).

The sensor (8) is arranged directly on a sound damper housing (9). The housing has a pot-like depression (13) which forms a pressure chamber. The diaphragm is held by a holding ring (18) which engages with a hook (19) over a bead (20) on the outer wall. The passage may include filter fleece (25) to exclude dust from the diaphragm, which actuates an electric switch via a lever (23).

.2/2

Abstract (Equivalent): GB 2130117 B

A suction cleaner including a device for indicating the degree of filling of a filter **bag** of the cleaner, a suction **fan**, and a **sound absorber** around a perforate portion of an air passage leading from the suction **fan** to the filter **bag**, the perforate portion being downstream of the suction **fan** and upstream of the filter **bag**; the **sound absorber** including a **housing**, part of which forms a pressure **chamber** of said device, this **chamber** being closed on one side by a diaphragm and having an opening leading to an internal part of the **sound absorber**.

Derwent Class: P28; X27

International Patent Class (Additional): A47L-009/19

27/7/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003853694

WPI Acc No: 1983-849946/198351

HF noise suppressor for vacuum cleaner - uses low pass acoustic filter in form of muffler connected in line with exhaust outlet

Patent Assignee: BREUER ELEC MFG CO (BREU-N)

Inventor: FISCHER E J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4418443	A	19831206				198351 B

Priority Applications (No Type Date): US 81328123 A 19811207

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4418443	A	6		

Abstract (Basic): US 4418443 A

In combination with an **enclosure**, for connection with an exhaust outlet from an air **blower**, a **sound reducing muffler** is provided. The **muffler** comprises a tubular **housing** having a cylindrical medial section of enlarged cross sectional area. The **housing** is connectable at one end with the exhaust outlet from the air **blower** and extends at an opposite end to interior of the **enclosure** for conveying air from the **blower** into the **enclosure**. The **muffler** acts as a low pass **noise filter** to reduce high frequency **noises** attending passage of air through the **blower**.

Pref. the **enclosure** comprises a filter **bag**. The **muffler** is positioned within the filter **bag**, with the opposite end of the **muffler housing** extending towards an upper end of the filter **bag**. This maintains an inlet above any collected debris, so that the inlet does not become choked off with debris.

2/2

Derwent Class: P28; X27

International Patent Class (Additional): A47L-009/00

27/7/7 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO

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06166434 **Image available**

FLUID PUMP

PUB. NO.: 11-107980 [JP 11107980 A]

PUBLISHED: April 20, 1999 (19990420)

INVENTOR(s): SAKURAI KOJI
OSHIMA KIYOSHI
APPLICANT(s): DENSO CORP
TOYODA SPINNING & WEAVING CO LTD
APPL. NO.: 09-273068 [JP 97273068]
FILED: October 06, 1997 (19971006)

ABSTRACT

PROBLEM TO BE SOLVED: To facilitate the assembling of a partitioning member and to reduce the manufacturing cost by pressing a **sound absorbing** member toward a **casing** by the partitioning member to hold it, and pressing the partitioning member toward the **casing** by the **elastic** force of the **sound absorbing** member to hold it.

SOLUTION: A **sound absorbing** member 147 consisting of a porous **elastic** member is provided in a position corresponding to a **sound absorbing** range between a first **casing** 144 and the third **casing** 146 of a partitioning member. The **sound absorbing** member 147 is pressed toward the bottom part of the first **casing** 144 by the third **casing** 146, and held within an air passage 142. The third **casing** 146 is pressed toward a second **casing** 145 by the **elastic** force of the **sound absorbing** member 147, and held within the air passage 142. The **sound absorbing** member 147 is inserted to the bottom part of the first **casing** 144, and the first and second **casings** 144, 145 can be fastened by a snap fit so as to nip the third **casing** 146. Thus, the manpower for assembling the third **casing** 146 and the **sound absorbing** member 147 is reduced.

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27/7/8 (Item 2 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
05263598 **Image available**
SOUND INSULATING DEVICE FOR BLOWER
PUB. NO.: 08-219098 [JP 8219098 A]
PUBLISHED: August 27, 1996 (19960827)
INVENTOR(s): ISHIDA FUMIAKI
FUJIO MASAYUKI
ASHIHARA KEIGAN
MORITAKE TAKESHI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 07-030417 [JP 9530417]
FILED: February 20, 1995 (19950220)

ABSTRACT

PURPOSE: To reduce the exhaust noise of a **blower** without needing a special **muffler** by making exhaust air, discharged from the discharge port of a **blower**, reach a **muffling passage chamber** through a **flexible duct**, eliminating **noise** in the **muffling passage chamber**, then making the air reach an **exhaust chamber**, and further eliminating **noise** therein.

CONSTITUTION: Air sucked from a pipeline 64 and pressurized by a **blower** VB is discharged from a discharge port 5a. This air is discharged to a **muffling passage chamber** through a **flexible duct** 60 and exhausted into an **exhaust chamber** 32 from an opening 62 through the **muffling passage chamber**. Exhaust **noise** generated by the **blower** VB is **absorbed** by **sound absorbing** material at the time of the exhaust air passing the **muffling passage chamber**. The air exhausted into the **exhaust chamber** 32 through an opening 56 and the opening 62 joins in the **exhaust chamber** 32 and is discharged

from an exhaust port 58 provided at the lower part. The exhaust noise is further absorbed therein by sound absorbing material.

27/7/9 (Item 3 from file: 347)

DIALOG(R) File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
03392120 **Image available**

ELECTRIC VACUUM CLEANER

PUB. NO.: 03-055020 [JP 3055020 A]
PUBLISHED: March 08, 1991 (19910308)
INVENTOR(s): HAYATSU MAMORU
KOIKE TOSHIRO
APPLICANT(s): MITSUBISHI ELECTRIC HOME APPLIANCE CO LTD [488963] (A
Japanese Company or Corporation), JP (Japan)
MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 01-190652 [JP 89190652]
FILED: July 25, 1989 (19890725)

ABSTRACT

PURPOSE: To diminish noise and shift an exhaust port to an desired position by a method wherein a straight muffler is mounted on the exhaust port of a main body case, and a flexible or extensible member is furnished between the exhaust port and a muffler.

CONSTITUTION: A main body case 1 of an electric vacuum cleaner encloses an electric fan 9 and other, and a window having a spring or slide type openable shutter 5 is provided nearby an exhaust port 3 on the rear side. An exhaust passage 7 is provided on a partition wall 6 facing the shutter 5, and a seal rubber 8 is attached inside the exhaust passage. A muffler pipe 11 consists of a small diameter pipe 12 which is inserted into the exhaust passage 7, a large diameter pipe 13 and a flexible member 14 which connects the small and large diameter pipes. Noise insulating material 15 composed of urethane resin, felt, etc. is attached on the inner surface of the large diameter pipe 13 and an outlet 13a. When the vacuum cleaner is put in operation, as whole air is exhausted through the muffler pipe 11 which is long and provided with noise insulating material 15, the noise is remarkably reduced. Moreover, since the muffler pipe 11 is furnished with the flexible pipe 14, the outlet 13a can be freely directed to the right or left or upward or downward.

27/7/10 (Item 4 from file: 347)

DIALOG(R) File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
02391219 **Image available**

NOISE SUPPRESSES FOR GRANULAR MATERIAL CONVEYING PIPE

PUB. NO.: 63-008119 [JP 63008119 A]
PUBLISHED: January 13, 1988 (19880113)
INVENTOR(s): SATAKE TOSHIHIKO
APPLICANT(s): SATAKE ENG CO LTD [400105] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 61-148819 [JP 86148819]
FILED: June 23, 1986 (19860623)

ABSTRACT

PURPOSE: To prevent generation of acoustic sound, by providing a cylindrical pipe section made of flexible materials in a blowing pipe for

pneumatically conveying granular materials, by locating this cylindrical pipe section in a **sound shielding chamber** and by extending a blowing pipe connected to the terminal end of the cylindrical pipe section to a position outside of the **sound shielding chamber** so as to be coupled to a bran collector.

CONSTITUTION: In a rice pearling mill 1 disposed in a **sound shielding chamber** 2, unhulled rice fed through a rice supply port 3 is pearled in a pearling cylinder defined by a bran removing cylinder 4. As a result, bran powder is discharged from the bran removing cylinder 4 and is led into the suction port 7 of a **blower** 6, and thereafter, is fed into a bran collector 10 from the blow port 8 of the **blower** 6 through a blowing pipe 9. A part of the blowing pipe 9 in the vicinity of the blow port 8 of the **blower** 6 within the **sound shield chamber** 2 is formed of a cylindrical pipe 11 made of **flexible** material such as vinyl or the like, and is connected to a **blower** pipe 12 communicated with the bran collector 10 outside of the **sound shield chamber** 2. Accordingly, **sound** generated from the **blower** 6 is suppressed under sound absorption by both **sound absorbing** wall of the **sound shielding chamber** 2 and **flexible** cylindrical pipe 11.

22/26, TI/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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017823642

WPI Acc No: 2006-334940/200635

Muffler for exhaust system, has housing with inner plate to reinforce housing, and two elastic tongues provided on plate, where one tongue is connected to one pipe and moves elastically independent of other tongue

22/26, TI/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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001721198

WPI Acc No: 1977-F7689Y/197728

Sound and vibration damping for tractor - with gear housing linked to clutch housing with elastic flanges

22/26, TI/7 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO

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05620129

RECODER

27/26, TI/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003375627

WPI Acc No: 1982-N3662E/198241

Sound damping cowling for piston IC engine - has annular seals to form oil space around engine and drive

INVENTOR

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200637

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File 349:PCT FULLTEXT 1979-2006/UB=20060615,UT=20060608

(c) 2006 WIPO/Univentio

File 348:EUROPEAN PATENTS 1978-2006/ 200623

(c) 2006 European Patent Office

Set Items Description

S1 26 AU='DANTANARAYANA M' OR AU='DANTANARAYANA M P' OR AU='DANTANARAYANA MUDITHA':AU='DANTANARAYANA MUDITHA PRADEEP C O RESMED LIMIT'

S2 26 IDPAT (sorted in duplicate/non-duplicate order)

S3 16 IDPAT (primary/non-duplicate records only)

3/7/10 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013293717 **Image available**

WPI Acc No: 2000-465652/200040

Apparatus for continuous positive airway pressure treatment of obstructive sleep apnea syndrome has housing containing noise producing component(s) sealed within thin flexible enclosure

Patent Assignee: RESMED LTD (RESM-N)

Inventor: DANTANARAYANA M P

Number of Countries: 091 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200038771	A1	20000706	WO 99AU1146	A	19991222	200040 B
AU 9965473	A	20000720	AU 9965473	A	19991223	200040
AU 200022693	A	20000731	AU 200022693	A	19991222	200050
AU 731421	B	20010329	AU 9965473	A	19991223	200124
EP 1140266	A1	20011010	EP 99966785	A	19991222	200167
			WO 99AU1146	A	19991222	
JP 2002537006	W	20021105	WO 99AU1146	A	19991222	200304
			JP 2000590721	A	19991222	

Priority Applications (No Type Date): AU 987896 A 19981223

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200038771 A1 E 12 A61M-016/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 9965473 A A61M-016/00

AU 200022693 A A61M-016/00 Based on patent WO 200038771

AU 731421 B A61M-016/00 Previous Publ. patent AU 9965473

EP 1140266 A1 E A61M-016/00 Based on patent WO 200038771

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2002537006 W 14 A61M-016/10 Based on patent WO 200038771

Abstract (Basic): WO 200038771 A1

NOVELTY - Apparatus (1) has noise producing component(s) (3,4,5,6) within a rigid housing (2). A thin flexible enclosure (8) is sealed

sound the component(s).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for assembling the above apparatus by placing the assembled the component(s) inside the enclosure via an opening, sealing the enclosure opening and then placing them inside the housing.

USE - Continuous Positive Airway Pressure (CPAP) treatment of Obstructive Sleep Apnea (OSA) syndrome.

ADVANTAGE - Noise reduction from the apparatus.

DESCRIPTION OF DRAWING(S) - The figure shows apparatus for supplying breathable gas

housing (2)

components (3 - 6)

enclosure (8)

pp; 12 DwgNo 1/1

Derwent Class: A17; A96; B07; P34; Q74

International Patent Class (Main): A61M-016/00; A61M-016/10

International Patent Class (Additional): F24F-013/24

3/7/11 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012765647 **Image available**

WPI Acc No: 1999-571775/199948

Breathable gas supply for e.g. obstructive sleep apnea treatment

Patent Assignee: RESMED LTD (RESM-N); CLARK S (CLAR-I); DANTANARAYANA M P (DANT-I); SMITH I M (SMIT-I); VIRR A (VIRR-I); WICKHAM P J D (WICK-I)

Inventor: CLARK S; DANTANAYARAMA M P; SMITH I M; VIRR A; WICKHAM P J D; DANTANARAYANA M P ; WICKHAM N F

Number of Countries: 085 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9947197	A1	19990923	WO 99AU167	A	19990316	199948 B
AU 9921250	A	19990930	AU 9921250	A	19990317	199952
AU 9929137	A	19991011	AU 9929137	A	19990316	200008
EP 1064042	A1	20010103	EP 99910014	A	19990316	200102
			WO 99AU167	A	19990316	
US 6302105	B1	20011016	US 99268758	A	19990316	200164
AU 741694	B	20011206	AU 9921250	A	19990317	200206
JP 2002511786	W	20020416	JP 99520660	A	19990316	200242
			WO 99AU167	A	19990316	
US 6629528	B1	20031007	US 99268758	A	19990316	200374
			US 2001931909	A	20010820	
US 20040000310	A1	20040101	US 99268758	A	19990316	200402
			US 2001931909	A	20010820	
			US 2003414297	A	20030416	
US 6899100	B2	20050531	US 99268758	A	19990316	200536
			US 2001931909	A	20010820	
			US 2003414297	A	20030416	
US 20050123424	A1	20050609	US 99268758	A	19990316	200538
			US 2001931909	A	20010820	
			US 2003414297	A	20030416	
			US 2004984893	A	20041110	

Priority Applications (No Type Date): AU 982401 A 19980317

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9947197 A1 E 25 A61M-016/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
 CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
 TJ TM TR TT UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
 IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9921250 A A61M-016/00

AU 9929137 A A61M-016/00 Based on patent WO 9947197

EP 1064042 A1 E A61M-016/00 Based on patent WO 9947197

Designated States (Regional): DE FR GB SE

US 6302105 B1 A61M-016/00

AU 741694 B A61M-016/00 Previous Publ. patent AU 9921250

JP 2002511786 W 27 A61M-016/00 Based on patent WO 9947197

US 6629528 B1 A61M-016/00 Cont of application US 99268758

Cont of patent US 6302105

US 20040000310 A1 A61M-016/00 Cont of application US 99268758

Cont of application US 2001931909

Cont of patent US 6302105

Cont of patent US 6629528

US 6899100 B2 A61M-016/00 Cont of application US 99268758

Div ex application US 2001931909

Cont of patent US 6302105

Div ex patent US 6629528

US 20050123424 A1 F04B-017/00 Cont of application US 99268758

Div ex application US 2001931909

Cont of application US 2003414297

Cont of patent US 6302105

Div ex patent US 6629528

Abstract (Basic): WO 9947197 A1

NOVELTY - Supply apparatus comprises a main housing (12), a sub-housing (14) with a gas flow path between the inlet (16) and outlet (18), a power source (electric motor) (22) and an impeller (30) engaging the power source. The sub-housing contains an inlet filter, outlet muffler, gas flow rate sensor, gas pressure sensor or gas supply vent valve assembly. The motor has a disk with magnets and the impeller has magnets attached to it to attract a plate.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a method of cleaning, sterilizing or disinfecting the gas flow path of a gas supply apparatus.

USE - Gas supply is for use in e.g. continuous positive airway pressure treatment of obstructive sleep apnea and e.g. emphysema.

DESCRIPTION OF DRAWING(S) - The drawing shows the breathable gas supply apparatus.

pp; 25 DwgNo 1/15

Derwent Class: P34; P35; Q56; S05

International Patent Class (Main): A61M-016/00; F04B-017/00

International Patent Class (Additional): A62B-007/00; F04B-035/04;

F04D-025/02; F04D-029/20; F04D-029/62

3/7/12 (Item 12 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009987432 **Image available**

WPI Acc. No: 1994-255143/199431

Lead connector assembly for medical device - with connector and sealed case fastened so external terminal of feed-through electrically contacts case terminal

Patent Assignee: TELETRONICS PACING SYSTEMS INC (TELE-N)

Inventor: DANTANARAYANA M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5336246	A	19940809	US 9381583	A	19930623	199431 B

Priority Applications (No Type Date): US 9381583 A 19930623

Patent Details:

Patent No	Kind	Lat	Pg	Main IPC	Filing Notes
US 5336246	A	8		A61N-001/375	

Abstract (Basic): US 5336246 A

The implantable electrical device comprises a sealed case contg. electrical circuitry and having at least one insulated electrical-feedthrough member coupled to the circuitry and extending from the interior of the case to the exterior of the case, the feed-through member including an electrical terminal carried externally of the case. A connector assembly has an apertured housing adapted to receive a proximal, electrical-terminal-carrying, end portion of an electrical lead in sealing engagement with the housing.

The interior of the connector assembly is sealed from the exterior when in engagement with the electrical lead, the connector assembly having at least one electrical contact adapted to be engaged by a terminal of the electrical lead and having at least one insulated feed-through member coupled to the contact and extending from the interior of the assembly to the exterior of the assembly, the feed-through member includes an electrical terminal carried externally of the assembly. The connector assembly and sealed case are fastened together in such a manner that the external terminal of the feed-through member on the assembly electrically contacts the external terminal of the feed-through member on the case.

USE - Implantable pacemaker-cardioverter- defibrillator with electrode lead receiving connector mfd. separately, then connected to remainders of devices.

Dwg.2/7

Derwent Class: P34; S05; V04

International Patent Class (Main): A61N-001/375

3/TI/1 (Item 1 from file: 350)

DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.

Nasal assembly for delivering breathable gas to patient, has removable headgear assembly provided to maintain frame and nozzle assembly in desired adjusted position on patient's face

3/TI/2 (Item 2 from file: 350)

DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.

Mask assembly useful as e.g. full-face mask assembly for patient comprises frame and cushion both having lateral flange portion with holes and cushion clip having lateral flange with rods passing through holes

3/TI/3 (Item 3 from file: 350)

DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.

Mask assembly for patient useful in treatment of obstructive sleep apnea

comprises components configured to promote single patient use
3/TI/4 (Item 4 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Respiratory mask assembly for use by a patient has magnetic coupling
associated with the frame and headgear assembly, and which allows the
frame and headgear to be attachable one to another at desired angular
orientation therebetween

3/TI/5 (Item 5 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Vent assembly for respiratory mask used in continuous positive airway
pressure treatment, has main vent portion, porous disk portion, and
secondary vent portion

3/TI/6 (Item 6 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Ergonomic and adjustable respiratory mask assembly for delivering
non-invasive positive pressure ventilation (NPPV) to patient, has
interlocking surfaces which interlocks with each to removably attach
cushion to frame

3/TI/7 (Item 7 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Ergonomic and adjustable respiratory mask for use by patient has membrane
which surrounds cushion rim and which has inner edge that forms
trapezoidal aperture

3/TI/8 (Item 8 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Ergonomic and adjustable respiratory mask for use by patient has headgear
that is attachable to frame through manually movable or releasable straps
engaged with frame connector or clip assembly

3/TI/9 (Item 9 from file: 350)
DIALOG(R) File 350:(c) 2006 The Thomson Corp. All rts. reserv.
Flow regulation vent in gas delivery system, consists of spring force biased
movable portion, moved between positions to establish gas flow area

3/TI/13 (Item 13 from file: 348)
DIALOG(R) File 348:(c) 2006 European Patent Office. All rts. reserv.
NASAL ASSEMBLY

3/TI/14 (Item 14 from file: 348)
DIALOG(R) File 348:(c) 2006 European Patent Office. All rts. reserv.
MASK SYSTEM

3/TI/15 (Item 15 from file: 348)
DIALOG(R) File 348:(c) 2006 European Patent Office. All rts. reserv.
MASK SYSTEM

3/TI/16 (Item 16 from file: 348)
DIALOG(R) File 348:(c) 2006 European Patent Office. All rts. reserv.
ERGONOMIC AND ADJUSTABLE RESPIRATORY MASK ASSEMBLY

File 155: MEDLINE(R) 1951-2006/Jun 15
(c) format only 2006 Dialog
File 5: Biosis Previews(R) 1969-2006/Jun W2
(c) 2006 The Thomson Corporation
File 73: EMBASE 1974-2006/Jun 16
(c) 2006 Elsevier Science B.V.
File 34: SciSearch(R) Cited Ref Sci 1990-2006/Jun W2
(c) 2006 Inst for Sci Info
File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
Set Items Description
S1 3 AU='DANTANARAYANA MUDITHA PRADEEP'
S2 2 RD (unique items)

2/7/1 (Item 1 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.
0015846096 BIOSIS NO.: 200600191491
Apparatus for supplying breathable gas
AUTHOR: Wickham Nicola Frances; Virr Alexander; Smith Ian Malcolm;
Dantanarayana Muditha Pradeep ; Clark Stanley
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JOURNAL: Official Gazette of the United States Patent and Trademark Office
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ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A sub-housing received within a housing of an apparatus for
supplying breathable gas, includes a gas flow path between a gas inlet
and a gas outlet and an impeller in fluid communication between the gas
inlet and the gas outlet. The impeller is structured and configured to be
releasably engaged with a shaft associated with an electric motor that is
disposed exterior to the housing, whereby rotation of the shaft causes
rotation of the impeller.

2/7/2 (Item 2 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.
0014553886 BIOSIS NO.: 200300522605
Apparatus for supplying breathable gas
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JOURNAL: Official Gazette of the United States Patent and Trademark Office
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MEDIUM: e-file
ISSN: 0098-1133 (ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: An apparatus (10) for supplying breathable gas is disclosed. The
apparatus (10) includes a main housing (12), a sub-housing (14), having a
gas flow path (28) between a gas inlet (16) and a gas outlet (18), a
motive power source (22) within the main housing (12) and an impeller

(30) within the sub-housing (14) in fluid communication between the gas inlet (16) and the gas outlet (18). The impeller (30) is adapted to releaseably engage the motive power source (22) external the gas flow path (28) and the sub-housing (14) is releasably connectable to said main housing. Also disclosed is a method of cleaning, sterilising or disinfecting the gas flow path (28) of the breathable gas supply apparatus (10). The method of cleaning comprising the steps of removing the sub-housing (14) from the main housing (12) cleaning, sterilising, disinfecting or replacing the sub-housing (14) and connecting the sub-housing (14) to the main housing (12).